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sufficient to effect a change in porosity of the cell of the target tissue sufficient to facilitate entry of a desired molecule into an interior of the cell.

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11. (Once Amended) A system for facilitating the delivery of a desired molecule into a target tissue comprising:

a molecule introducer adapted to introduce a molecule into a target tissue comprising a cell; and

an applicator for applying at least one substantially continuous low-level electric field to the target tissue for a duration sufficient to effect a change in porosity of the cell of the target tissue sufficient to facilitate an entry of a desired molecule into an interior of the cell.

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12. (Once Amended) The system recited in Claim 11, wherein the applicator applies the electric field comprising a duration of at least 100ms.

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15. (Once Amended) The system recited in Claim 11, wherein the applicator applies a plurality of substantially continuous low-level electric fields to the target tissue, wherein the duration of each substantially continuous low-level electric field is sufficient to effect a change in porosity of the cell of the target tissue sufficient to facilitate entry of a desired molecule into an interior of the cell.

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18. (Once Amended) The system recited in Claim 11, wherein the molecule introducer is selected from a group consisting of a syringe, a jet injector, an oral dosage, a transdermal deliverer, a tissue infuser, and a blood vessel infuser.

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20. (Once Amended) The system recited in Claim 11, wherein the target tissue is selected from a group consisting of skin, tumor, muscle, blood, blood vessel, brain, lymph, liver, pancreas, bone, colon, cardiac, lung, breast, testes, cornea, prostate and intestine.

A6